

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**  
(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. CHOP.0189US

First Named Inventor WEISS, Mitchell

Title ALPHA-HEMOGLOBIN STABILIZING PROTEIN TRANSGENIC MOUSE AND METHODS OF USE THEREOF

Express Mail Label No. EV374762467US Date Mailed: April 14, 2004

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:  
Commissioner for Patents  
Mail Stop Patent Application  
P.O. Box 1450  
Alexandria, VA 22313-1450

1.  Fee Transmittal Form  
(Submit an original, and a duplicate for fee processing)

2.  Applicant claims small entity status  
See 37 CFR 1.27

3.  Specification  
(preferred arrangement set forth below) (Total Pages 83)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to sequence listing, a table or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4.  Drawing(s) (35 USC 113) (Total Sheets 12)

5.  Oath or Declaration (Total Pages \_\_\_\_\_)

- a.  Newly executed (original or copy)  
b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)

- i.  **DELETION OF INVENTOR(S)**  
Signed Statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6.  Application Data Sheet See 37 CFR 1.76

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a.  Computer Readable Form (CRF)
- b. Specification Sequence Listing on  
 CD-ROM or CD-R (2 copies); or  
 paper
- c.  Statement verifying identity of above copies

17548 U.S. PTO  
10/824440  
041404

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of Attorney  
(when there is an assignee)
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of Citations
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16.  Request and certification for non-publication under 35 U.S.C. 122
17.  Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation       Divisional       Continuation-in-part (CIP)  
Prior application information: Examiner \_\_\_\_\_

of prior application No.: \_\_\_\_\_  
Group Art Unit: \_\_\_\_\_

## b. Priority Applications

In addition to any applications listed in 17a, the present application also claims priority to the following application(s), each of which is hereby incorporated herein by reference.

60/462,771 Filed April 14, 2003 and 60/477,991 Filed June 12, 2003

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**CORRESPONDENCE ADDRESS**

Please address all correspondence to Customer Number 000110 to the attention of the individual identified below.

Kathleen D. Rigaut, Ph.D., J.D.  
Dann, Dorfman, Herrell and Skillman  
1601 Market Street, Suite 2400  
Philadelphia, Pennsylvania 19103

*Kathleen D. Rigaut*  
Kathleen D. Rigaut, Ph.D., J.D.  
P.T.O. Reg. No. 43,047

Phone (215) 563-4100  
Fax (215) 563-4044

*4/14/04*

Date

## FEE TRANSMITTAL

<b>FEE TRANSMITTAL</b>		<i>Complete if known</i>																																																					
		Application Number	not yet assigned																																																				
		Filing Date	April 14, 2004																																																				
		First Named Inventor	WEISS, Mitchell																																																				
		Group Art Unit																																																					
		Examiner Name																																																					
TOT. AMT. OF PAYMENT: (1)+(2)+(3) = \$ <b>993.00</b>		Attorney Docket Number <b>CHOP.0189US</b>																																																					
<b>METHOD OF PAYMENT</b> (check one)		<b>FEE CALCULATION (continued)</b>																																																					
<p>1. The Commissioner is hereby authorized to:</p> <p><input type="checkbox"/> Charge indicated fees  <input checked="" type="checkbox"/> Charge additional fees  <input checked="" type="checkbox"/> Credit overpayments</p> <p>to the account of DANN, DORFMAN, HERRELL AND SKILLMAN</p> <p>Deposit Account Number <u>04-1406</u></p> <p>2. Payment enclosed:</p> <p>Checks in the amount of \$ <u>993.00</u>  Check Nos.: _____</p>																																																							
<p><b>FEE CALCULATION</b></p> <p>1. FILING FEE</p> <table> <thead> <tr> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Utility filing fee</td> <td><u>385.00</u></td> </tr> <tr> <td>Design filing fee</td> <td>_____</td> </tr> <tr> <td>Plant filing fee</td> <td>_____</td> </tr> <tr> <td>Reissue filing fee</td> <td>_____</td> </tr> <tr> <td>Provisional filing fee</td> <td>_____</td> </tr> <tr> <td>SUBTOTAL (1)</td> <td>\$ <u>385.00</u></td> </tr> </tbody> </table> <p>2. CLAIMS</p> <table> <thead> <tr> <th></th> <th>Extra</th> <th>Fee</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Presented <u>38</u> - <u>20</u> = <u>18</u> x <u>9.00</u> = <u>162.00</u></td> <td>(a)</td> <td></td> <td></td> </tr> <tr> <td>Independent Claims</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Presented <u>10</u> - <u>3</u> = <u>7</u> x <u>43.00</u> = <u>301.00</u></td> <td>(b)</td> <td></td> <td></td> </tr> <tr> <td>Multiple Dependent Claim (first presentation)</td> <td><u>1</u></td> <td>=</td> <td><u>145.00</u></td> </tr> <tr> <td>(a) Enter 20 or number previously paid for</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(b) Enter 3 or number previously paid for</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SUBTOTAL (2)</td> <td>\$</td> <td>608.00</td> <td>SUBTOTAL (3) \$ _____</td> </tr> </tbody> </table>				Fee Description	Fee Paid	Utility filing fee	<u>385.00</u>	Design filing fee	_____	Plant filing fee	_____	Reissue filing fee	_____	Provisional filing fee	_____	SUBTOTAL (1)	\$ <u>385.00</u>		Extra	Fee	Fee Paid	Total Claims				Presented <u>38</u> - <u>20</u> = <u>18</u> x <u>9.00</u> = <u>162.00</u>	(a)			Independent Claims				Presented <u>10</u> - <u>3</u> = <u>7</u> x <u>43.00</u> = <u>301.00</u>	(b)			Multiple Dependent Claim (first presentation)	<u>1</u>	=	<u>145.00</u>	(a) Enter 20 or number previously paid for				(b) Enter 3 or number previously paid for				SUBTOTAL (2)	\$	608.00	SUBTOTAL (3) \$ _____		
Fee Description	Fee Paid																																																						
Utility filing fee	<u>385.00</u>																																																						
Design filing fee	_____																																																						
Plant filing fee	_____																																																						
Reissue filing fee	_____																																																						
Provisional filing fee	_____																																																						
SUBTOTAL (1)	\$ <u>385.00</u>																																																						
	Extra	Fee	Fee Paid																																																				
Total Claims																																																							
Presented <u>38</u> - <u>20</u> = <u>18</u> x <u>9.00</u> = <u>162.00</u>	(a)																																																						
Independent Claims																																																							
Presented <u>10</u> - <u>3</u> = <u>7</u> x <u>43.00</u> = <u>301.00</u>	(b)																																																						
Multiple Dependent Claim (first presentation)	<u>1</u>	=	<u>145.00</u>																																																				
(a) Enter 20 or number previously paid for																																																							
(b) Enter 3 or number previously paid for																																																							
SUBTOTAL (2)	\$	608.00	SUBTOTAL (3) \$ _____																																																				
<p>3. ADDITIONAL FEES</p> <table> <thead> <tr> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Surcharge-late filing fee or oath</td> <td>_____</td> </tr> <tr> <td>Surcharge - late provisional filing fee or cover sheet</td> <td>_____</td> </tr> <tr> <td>Non-English specification</td> <td>_____</td> </tr> <tr> <td>For filing a request for reexamination</td> <td>_____</td> </tr> <tr> <td>Requesting publication of SIR prior to Examiner action</td> <td>_____</td> </tr> <tr> <td>Requesting publication of SIR after Examiner action</td> <td>_____</td> </tr> <tr> <td>Extension for response within first month</td> <td>_____</td> </tr> <tr> <td>Extension for response within second month</td> <td>_____</td> </tr> <tr> <td>Extension for response within third month</td> <td>_____</td> </tr> <tr> <td>Extension for response within fourth month</td> <td>_____</td> </tr> <tr> <td>Notice of Appeal</td> <td>_____</td> </tr> <tr> <td>Filing a brief in support of an appeal</td> <td>_____</td> </tr> <tr> <td>Request for oral hearing</td> <td>_____</td> </tr> <tr> <td>Petition to institute a public use proceeding</td> <td>_____</td> </tr> <tr> <td>Petition to revive unavoidably abandoned application</td> <td>_____</td> </tr> <tr> <td>Petition to revive unintentionally abandoned application</td> <td>_____</td> </tr> <tr> <td>Issue fee</td> <td>_____</td> </tr> <tr> <td>Petitions to the Commissioner</td> <td>_____</td> </tr> <tr> <td>Petitions related to provisional applications</td> <td>_____</td> </tr> <tr> <td>Submission of Information Disclosure Stmt.</td> <td>_____</td> </tr> <tr> <td>Recording each patent assignment per property (times number of properties)</td> <td>_____</td> </tr> <tr> <td>Filing a submission after final rejection (37 CFR 1.129(a))</td> <td>_____</td> </tr> <tr> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td>_____</td> </tr> <tr> <td>Other fee (specify) _____</td> <td>_____</td> </tr> <tr> <td>Other fee (specify) _____</td> <td>_____</td> </tr> </tbody> </table>				Fee Description	Fee Paid	Surcharge-late filing fee or oath	_____	Surcharge - late provisional filing fee or cover sheet	_____	Non-English specification	_____	For filing a request for reexamination	_____	Requesting publication of SIR prior to Examiner action	_____	Requesting publication of SIR after Examiner action	_____	Extension for response within first month	_____	Extension for response within second month	_____	Extension for response within third month	_____	Extension for response within fourth month	_____	Notice of Appeal	_____	Filing a brief in support of an appeal	_____	Request for oral hearing	_____	Petition to institute a public use proceeding	_____	Petition to revive unavoidably abandoned application	_____	Petition to revive unintentionally abandoned application	_____	Issue fee	_____	Petitions to the Commissioner	_____	Petitions related to provisional applications	_____	Submission of Information Disclosure Stmt.	_____	Recording each patent assignment per property (times number of properties)	_____	Filing a submission after final rejection (37 CFR 1.129(a))	_____	For each additional invention to be examined (37 CFR 1.129(b))	_____	Other fee (specify) _____	_____	Other fee (specify) _____	_____
Fee Description	Fee Paid																																																						
Surcharge-late filing fee or oath	_____																																																						
Surcharge - late provisional filing fee or cover sheet	_____																																																						
Non-English specification	_____																																																						
For filing a request for reexamination	_____																																																						
Requesting publication of SIR prior to Examiner action	_____																																																						
Requesting publication of SIR after Examiner action	_____																																																						
Extension for response within first month	_____																																																						
Extension for response within second month	_____																																																						
Extension for response within third month	_____																																																						
Extension for response within fourth month	_____																																																						
Notice of Appeal	_____																																																						
Filing a brief in support of an appeal	_____																																																						
Request for oral hearing	_____																																																						
Petition to institute a public use proceeding	_____																																																						
Petition to revive unavoidably abandoned application	_____																																																						
Petition to revive unintentionally abandoned application	_____																																																						
Issue fee	_____																																																						
Petitions to the Commissioner	_____																																																						
Petitions related to provisional applications	_____																																																						
Submission of Information Disclosure Stmt.	_____																																																						
Recording each patent assignment per property (times number of properties)	_____																																																						
Filing a submission after final rejection (37 CFR 1.129(a))	_____																																																						
For each additional invention to be examined (37 CFR 1.129(b))	_____																																																						
Other fee (specify) _____	_____																																																						
Other fee (specify) _____	_____																																																						

**Submitted By:**

Typed or

Printed Name Kathleen D. Rigaut, Ph.D., J.D.

Reg. Number 43,047

Printed Name Kathleen D. Regan  
Signature Kathleen D. Regan

**Deposit Account User ID**  
**04-1406**